



SEQUENCE LISTING

<110> Tobin, Elaine
Wang, Zhi-Yong
Sun, Lin
The Regents of the University of California

<120> Phytochrome Regulated Transcription Factor for Control
of Higher Plant Development

<130> 023070-124200US

<140> US 10/084,553

<141> 2002-02-25

<150> US 08/843,572

<151> 1997-04-18

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<170> PatentIn Ver. 2.1

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per #5

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Pro Lys Arg Lys Pro Asn Asn Pro Tyr Pro Arg Lys Thr Gly Ser Gly
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 Gly Ser Glu Lys Val Ser His Pro Glu
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| 480 485 | |
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| Gly Arg | |
| 490 | |
| att gcc ttc caa gct ctc ttc tcc aga gag gta ttg ccg caa agt ttt | 3734 |
| Ile Ala Phe Gln Ala Leu Phe Ser Arg Glu Val Leu Pro Gln Ser Phe | |
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| Gly | Gly | Phe | Thr | Ser | His | Pro | Pro | Ser | Thr | Phe | Gly | Pro | Ser | Cys | Asp |
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| Pro | Trp | Lys | Ser | Val | Ser | Asp | Glu | Gly | Arg | Ile | Ala | Phe | Gln | Ala | Leu |
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<223> Description of Artificial Sequence:PCR primer

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 for pXCA-21, pXCA-24 and pXCA-25

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 for pXCA-21, pXCA-24, pXCA-25 and pXCA-23

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 10-bp repeated sequence protected from cleavage

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<210> 11
 <211> 8
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:one copy of
 repeated sequence

<400> 11
 aaaaatct 8

<210> 12
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR
 amplification 5' primer

<400> 12
 gaagttgtct agaggagcta agtg 24

<210> 13
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR
 amplification 3' primer

<400> 13
 atgtggatcc ttgagtttcc aaccgc 26

<210> 14
 <211> 88
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:double-stranded
 A2 DNA probe fragment of Lhcb*3 promoter

 <400> 14
 aatctgcgaa gtgcgagcca ttaaccacgt aagcaaacaa acaatctaaa ccccaaaaaa 60
 aatctatgac tagccaatag caacctca 88

 <210> 15
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:WT1 probe

 <400> 15
 agcaaacaaa caatctaaac ccccaaaaaa atctatgact 40

 <210> 16
 <211> 88
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:m1 mutant probe

 <400> 16
 aatctgcgaa gtgcgagcca ttaaccacgt aagcgagtta acaagcgaaa cccagaata 60
 catctatgac tagccaatag caacctca 88

 <210> 17
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:m2 probe

 <400> 17
 taaccacgta agcgagttaa caagcgaaac ccccaaaaaa ac 42

 <210> 18
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:m3 probe

 <400> 18
 ttaaccacgt aagcaaacaa acaatctaaa cccagaata cac 43

<210> 19
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:m4 probe

<400> 19
 agcaaacaac caatataaac cccaaaaaaaa atttatgact 40

<210> 20
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:WT2 probe

<400> 20
 actaaacgat aaaacaaaaa tcttaaaatc caatgaatga 40

<210> 21
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CCA1 residues
 24-75

<400> 21
 Arg Glu Arg Trp Thr Glu Glu Glu His Asn Arg Phe Ile Glu Ala Leu
 1 5 10 15
 Arg Leu Tyr Gly Arg Ala Trp Gln Lys Ile Glu Glu His Val Ala Thr
 20 25 30
 Lys Thr Ala Val Gln Ile Arg Ser His Ala Gln Lys Phe Phe Ser Lys
 35 40 45
 Val Glu Lys Glu
 50

<210> 22
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Myb repeat
 seauence from Solanum tuberosum (St1)

<400> 22
 Gly Val Pro Trp Thr Glu Glu Glu His Arg Met Phe Leu Leu Gly Leu
 1 5 10 15
 Gly Lys Leu Gly Lys Gly Asp Trp Arg Gly Ile Ala Arg Asn Tyr Val
 20 25 30
 Ile Ser Arg Thr Pro Thr Gln Val Ala Ser His Ala Gln Lys Tyr Phe
 35 40 45

Ile Arg Gln Ser Asn Met Ser
50 55

<210> 23
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Myb repeat
sequence from human (HMyb, CMyb))

<400> 23
Lys Thr Ser Trp Thr Glu Glu Glu Asp Arg Ile Ile Tyr Gln Ala His
1 5 10 15
Lys Arg Leu Gly Asn Arg Trp Ala Glu Ile Ala Lys Leu Leu Pro Gly
20 25 30
Arg Thr Asp Asn Ala Ile Lys Asn His Trp Asn Ser Thr Met Arg Arg
35 40 45
Lys Val Glu Gln Glu
50

<210> 24
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Myb repeat
sequence from Drosophila melanogaster (DMyb)

<400> 24
Lys Thr Ala Trp Thr Glu Lys Glu Asp Glu Ile Ile Tyr Gln Ala His
1 5 10 15
Leu Glu Leu Gly Asn Gln Trp Ala Lys Ile Ala Lys Arg Leu Pro Gly
20 25 30
Arg Thr Asp Asn Ala Ile Lys Asn His Trp Asn Ser Thr Met Arg Arg
35 40 45
Lys Tyr Asp Val Glu
50

<210> 25
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Myb repeat
sequence from Zea mays (ZmC1)

<400> 25
Arg Gly Asn Ile Ser Tyr Asp Glu Glu Asp Leu Ile Ile Arg Leu His
1 5 10 15
Arg Leu Tyr Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly
20 25 30
Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr Leu Gly Arg
35 40 45

Arg Ala Gly Ala Gly
50

<210> 26
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Myb repeat
sequence from *Saccharomyces cerevisiae* (YBAS1)

<400> 26
Leu Arg Glu Trp Thr Leu Glu Glu Asp Leu Asn Leu Ile Ser Lys Val
1 5 10 15
Lys Ala Tyr Gly Thr Lys Trp Arg Lys Ile Ser Ser Glu Met Glu Phe
20 25 30
Arg Pro Ser Leu Thr Cys Arg Asn Arg Trp Arg Lys Ile Ile Thr Met
35 40 45
Val Val Arg Gly
50

<210> 27
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Myb repeat
sequence from *Arabidopsis thaliana* (AtGl1)

<400> 27
Lys Gly Asn Phe Thr Glu Gln Glu Glu Asp Leu Ile Ile Arg Leu His
1 5 10 15
Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Lys Arg Val Pro Gly
20 25 30
Arg Thr Asp Asn Gln Val Lys Asn Tyr Trp Asn Thr His Leu Ser Lys
35 40 45
Lys Leu Val Gly
50